

[illegible]

The figure illustrates the relationship between the number of vertical bars ( $n$ ) and the number of horizontal bars ( $m$ ). It consists of two main parts. The top part shows a grid of squares with arrows pointing downwards from each square to a row of circles below it. The bottom part shows a similar grid of squares with arrows pointing downwards from each square to a row of circles below it.

1 2 3 4 5 6

# Figure 2

## VecTest™

### MALARIA Sporozoite Antigen Panel Assay

- ◆ *Plasmodium falciparum*
- ◆ *Plasmodium vivax* 210
- ◆ *Plasmodium vivax* 247

Store at room temperature

FOR INVESTIGATIONAL USE ONLY

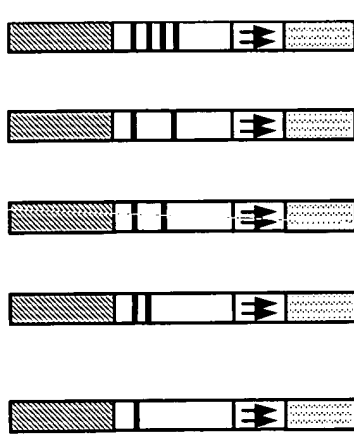
NAVIX

Medical Analysis Systems, Inc.  
524 Flynn Road, Camarillo, CA 93012

### INTERPRETATION OF RESULTS:

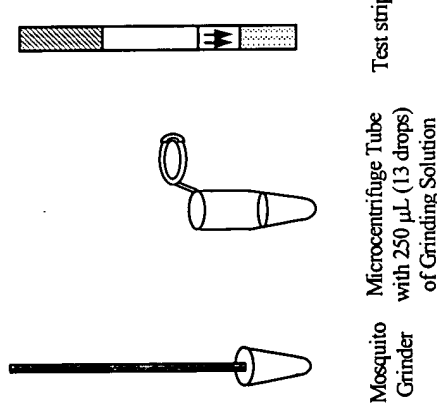
Positive for different analytes:

Negative Pf Pv 210 Pv 247  
Pf Pv 210 Pv 247



- The test should be interpreted positive only if at least two lines appear on the strip.
- The test is negative when only one line (control line) develops on the strip.
- Discard strip if no line develops. The test results are not valid if control line does not develop.

### KIT COMPONENTS:



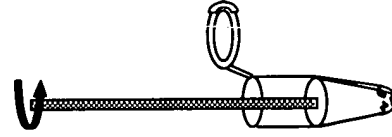
### PROCEDURE:

PREPARE MOSQUITOES FOR TEST

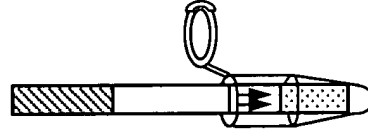


PLACE MOSQUITO PARTS (HEAD AND THORAX) INTO THE GIVEN TUBES WITH 250 µL (13 DROPS) OF GRINDING SOLUTION

HOMOGENIZE SAMPLE



REMOVE THE GRINDER, PLACE THE DIPSTICK IN THE SAMPLE TUBE AS SHOWN IN THE FIGURE

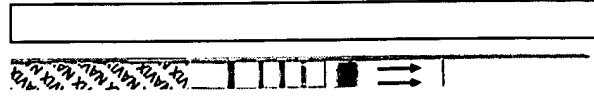


WAIT 15 MINUTES BEFORE READING RESULTS

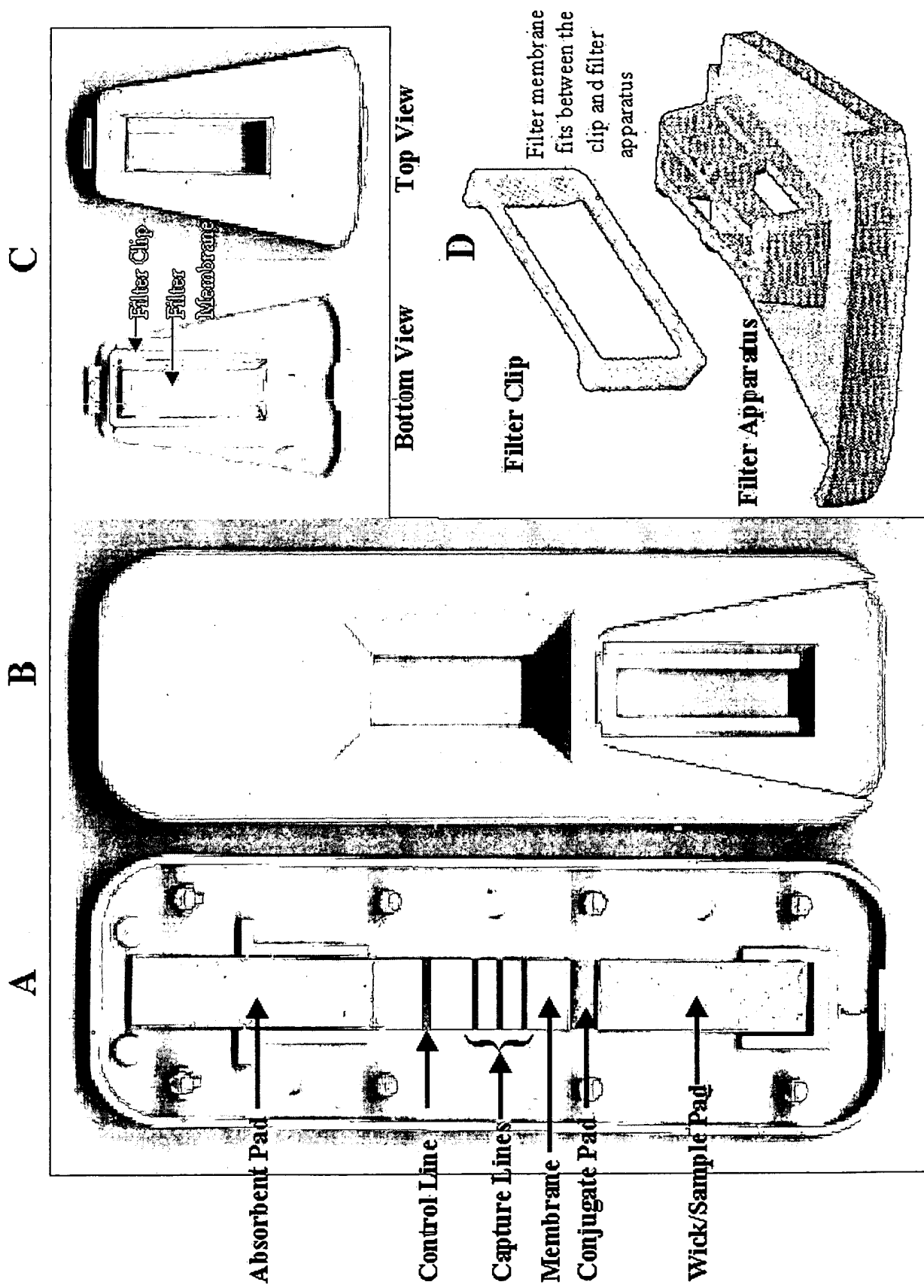
Signal pattern:

Control →  
Pf →  
Pv 210 →  
Pv 247 →

Place your test strip in the box for comparison

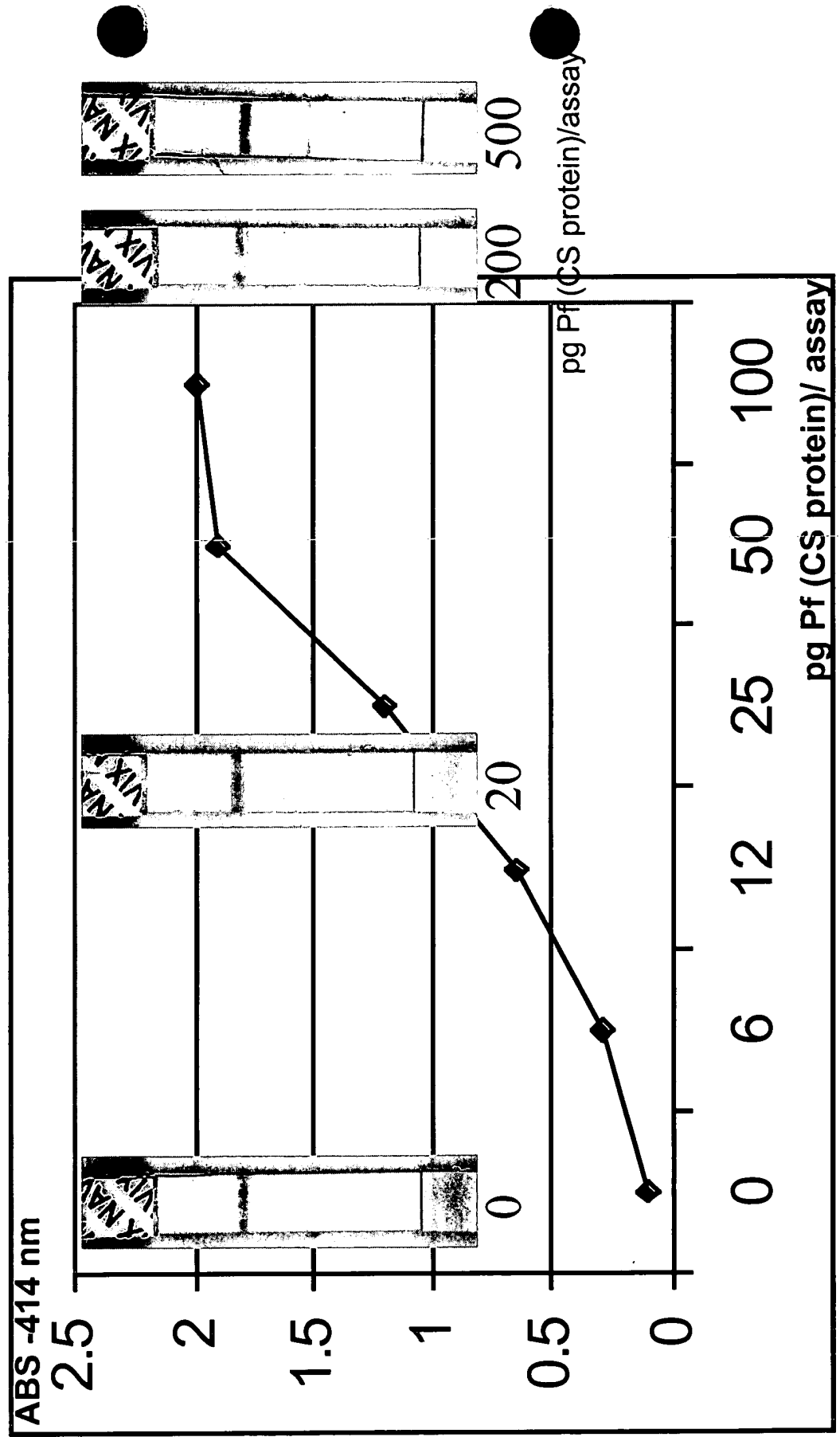


**Figure 3:**



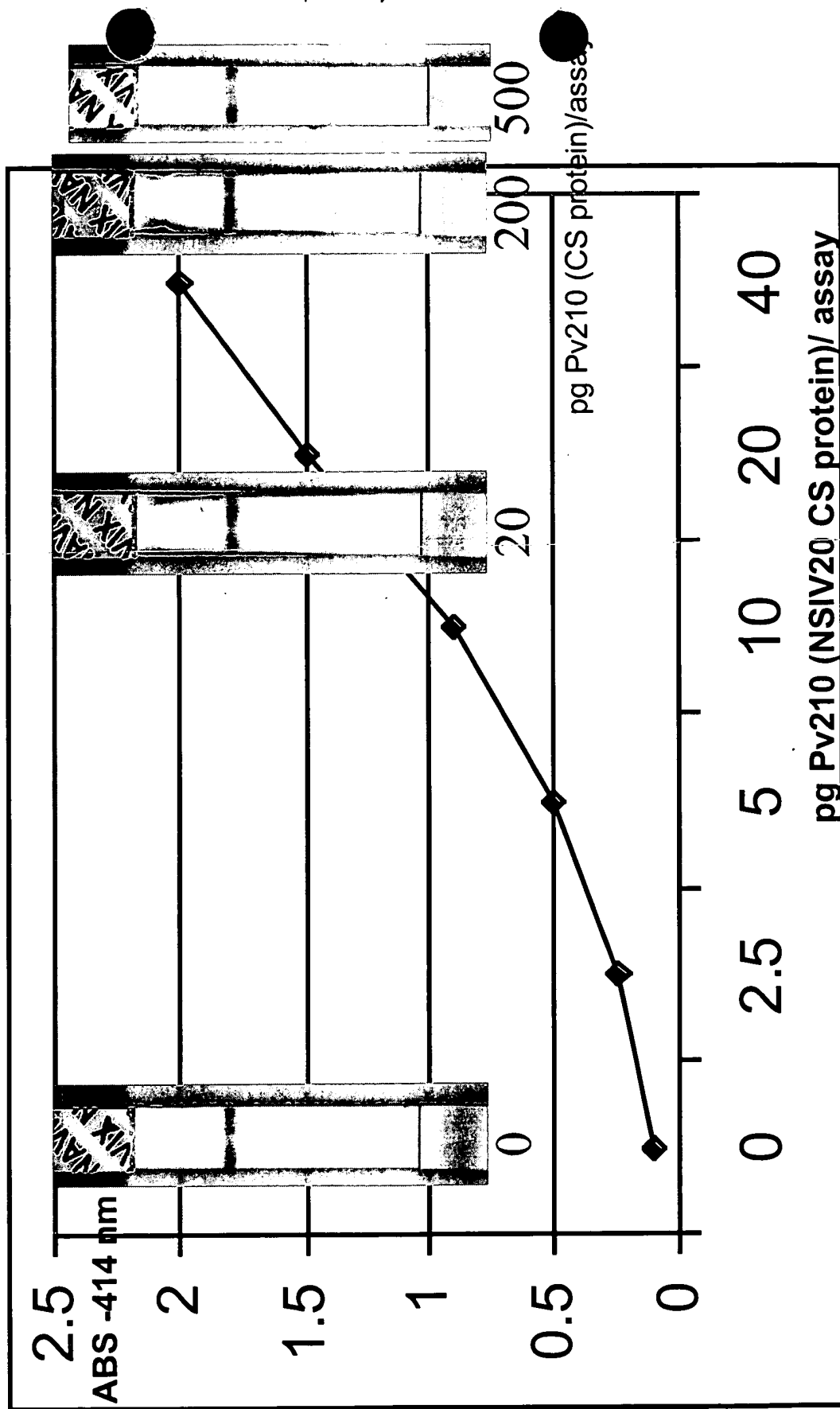
# *Plasmodium falciparum* CS Protein Detection

## ELISA versus Dipstick: Figure 4



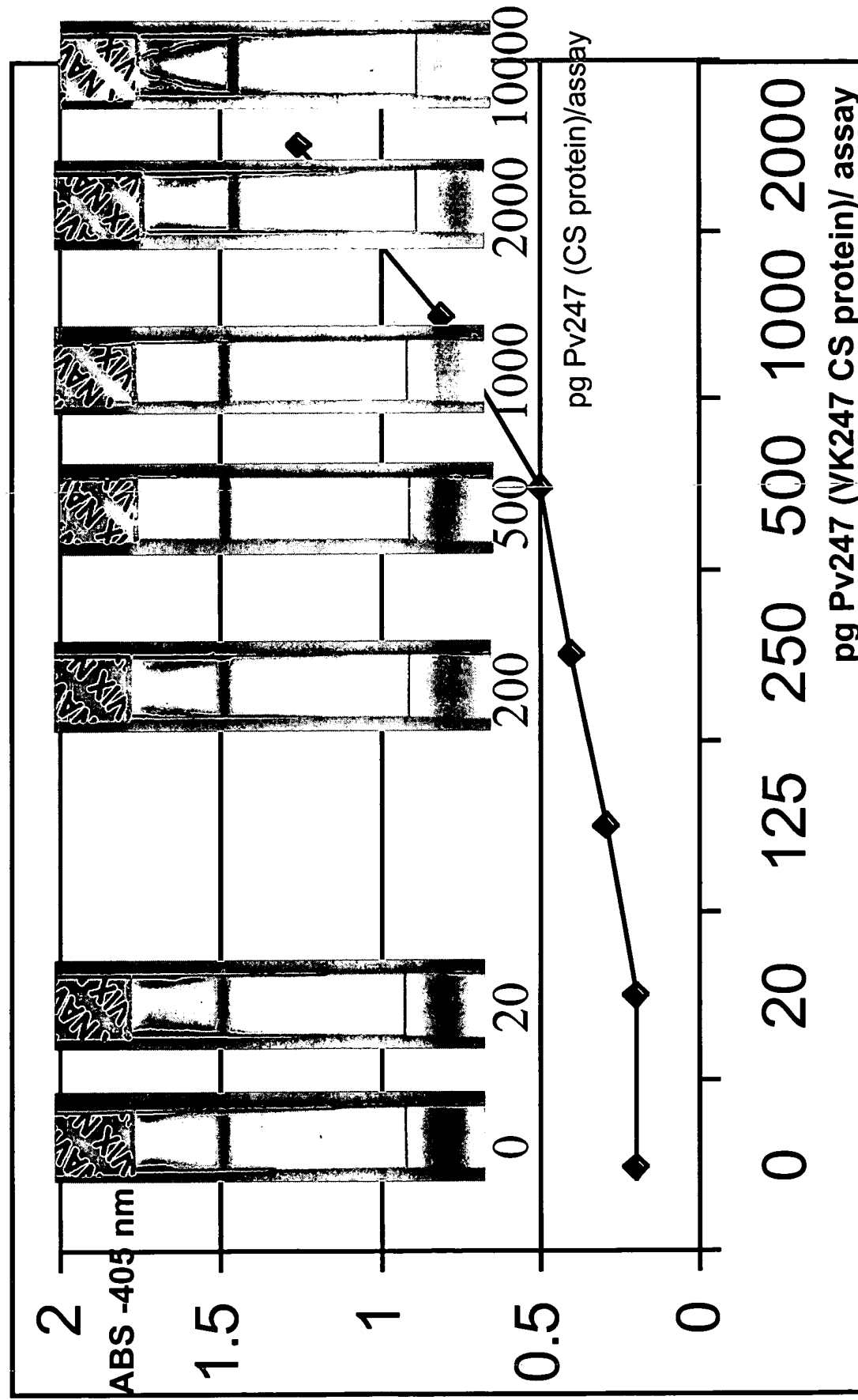
# Plasmodium vivax 210 CS Protein Detection

ELISA versus Dipstick: Figure 5



# *Plasmodium vivax* 247 CS Protein Detection

ELISA versus Dipstick: Figure 6

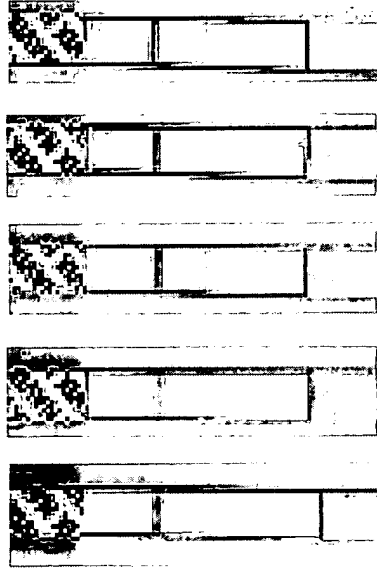


# Panel Dipstick Detection of *Plasmodium* Sporozoites in Infected Mosquitoes: Figure 7

Mosquito (MQ) extract:

Pf infected mosquitoes

1MQ, 1MQ, 2MQ, 3MQ, 5MQ



>400 300 30 30 300

Pf sporozoites

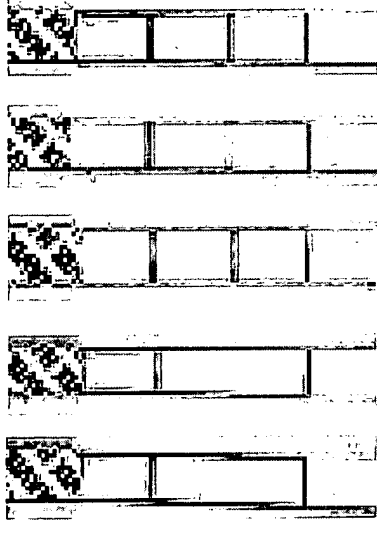
(ELISA result)

Sensitivity in ELISA:

~25-50 Pf sporozoites

Pv210 infected mosquitoes

1MQ, 1MQ, 2MQ, 3MQ, 5MQ



0 0 400 35 75

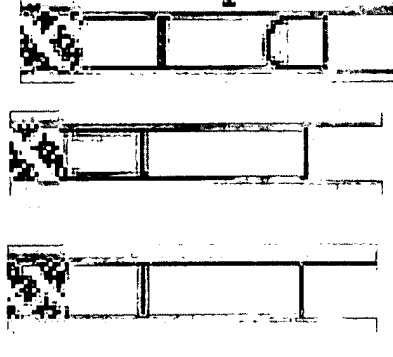
Pv210 sporozoites

(ELISA result)

~25-50 Pv210 sporozoites

Pv247 infected mosq.

1MQ, 3MQ, 5MQ



12.5 <12.5 50

Pv247 sporozoites

(ELISA result)

~50 Pv247 sporozoites